

Embodiment of the Core Technology

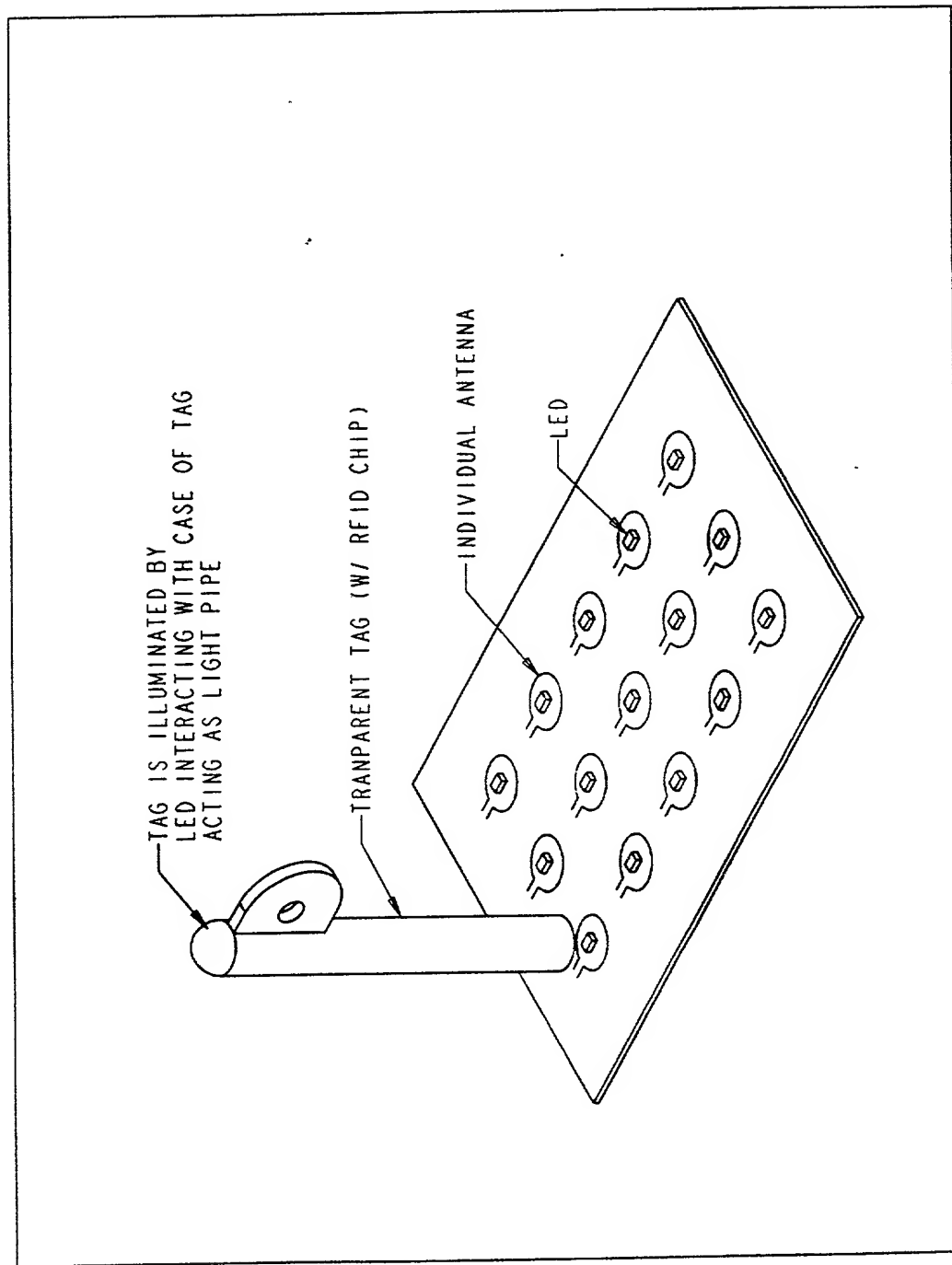


FIG. 1

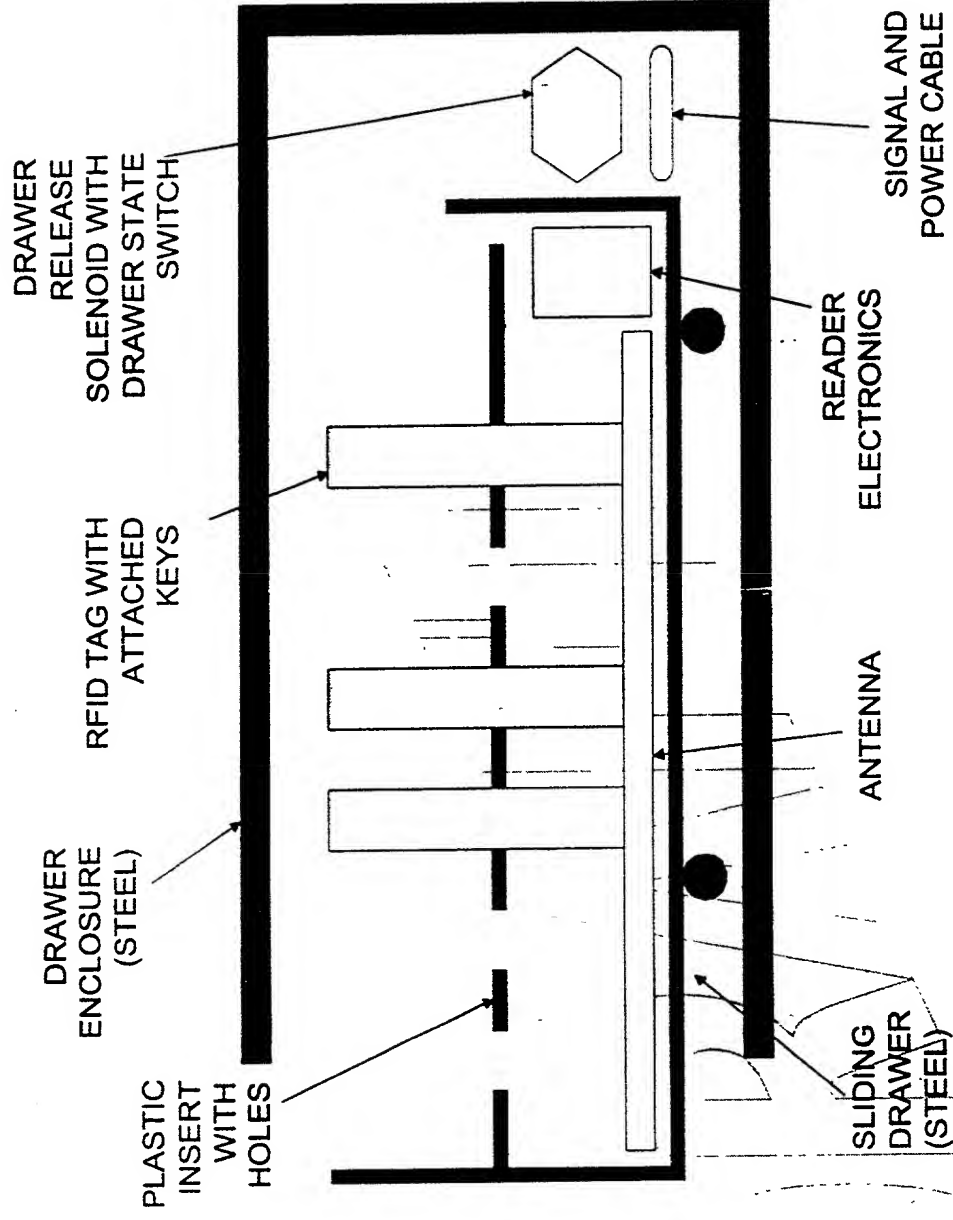


Figure 1 - Typical Drawer

FIG 1A

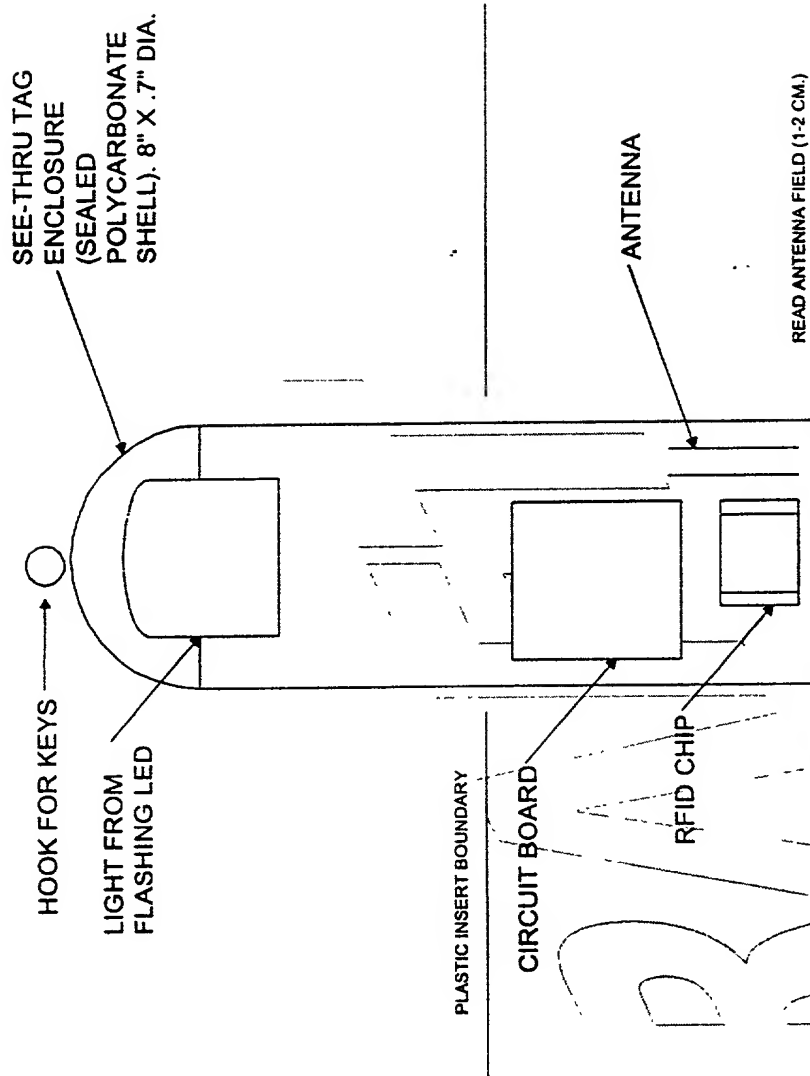


Figure 2 - Typical Tag

FIG 2

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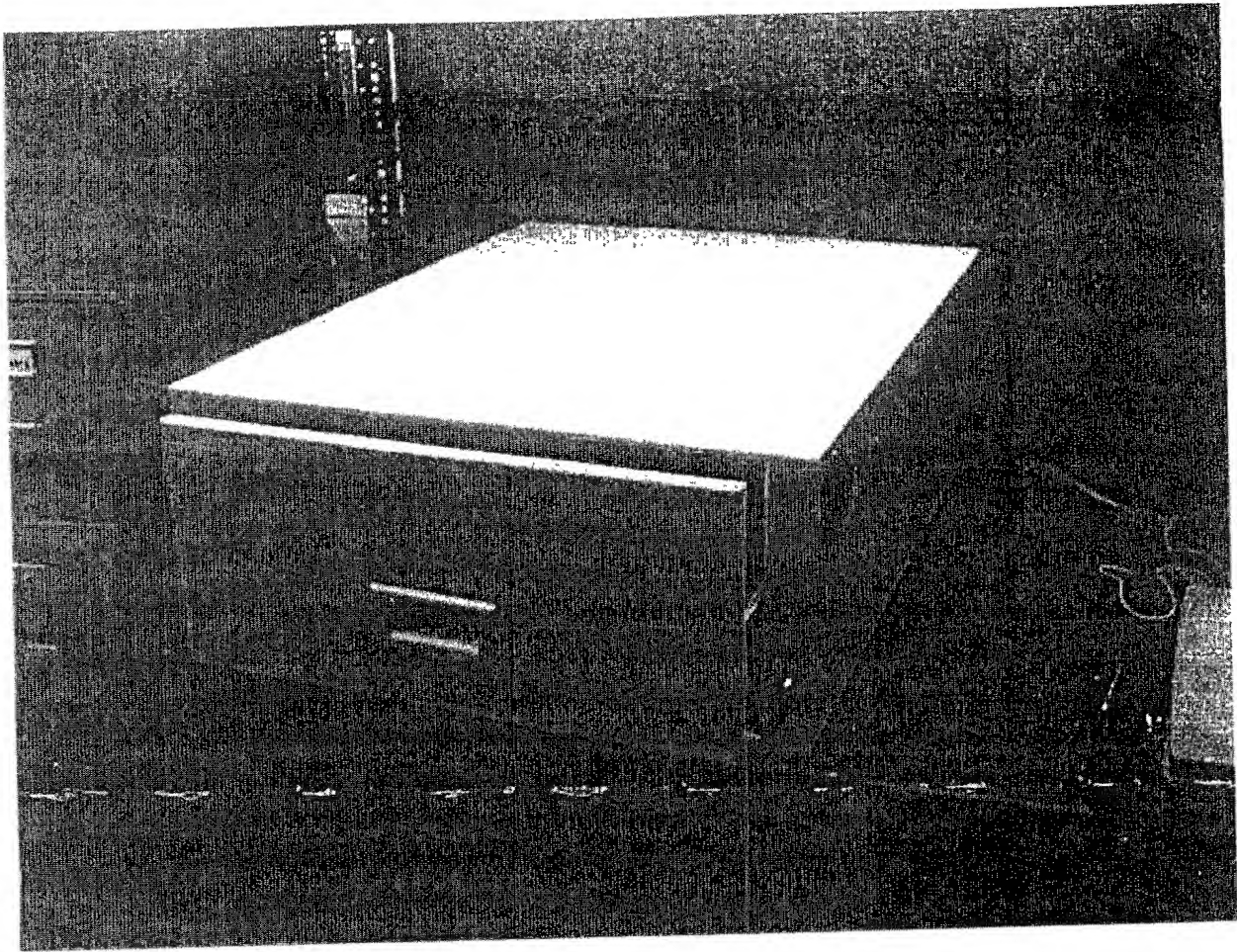


FIG. 3

Drawer cabinet is approx. 24x30x10 5

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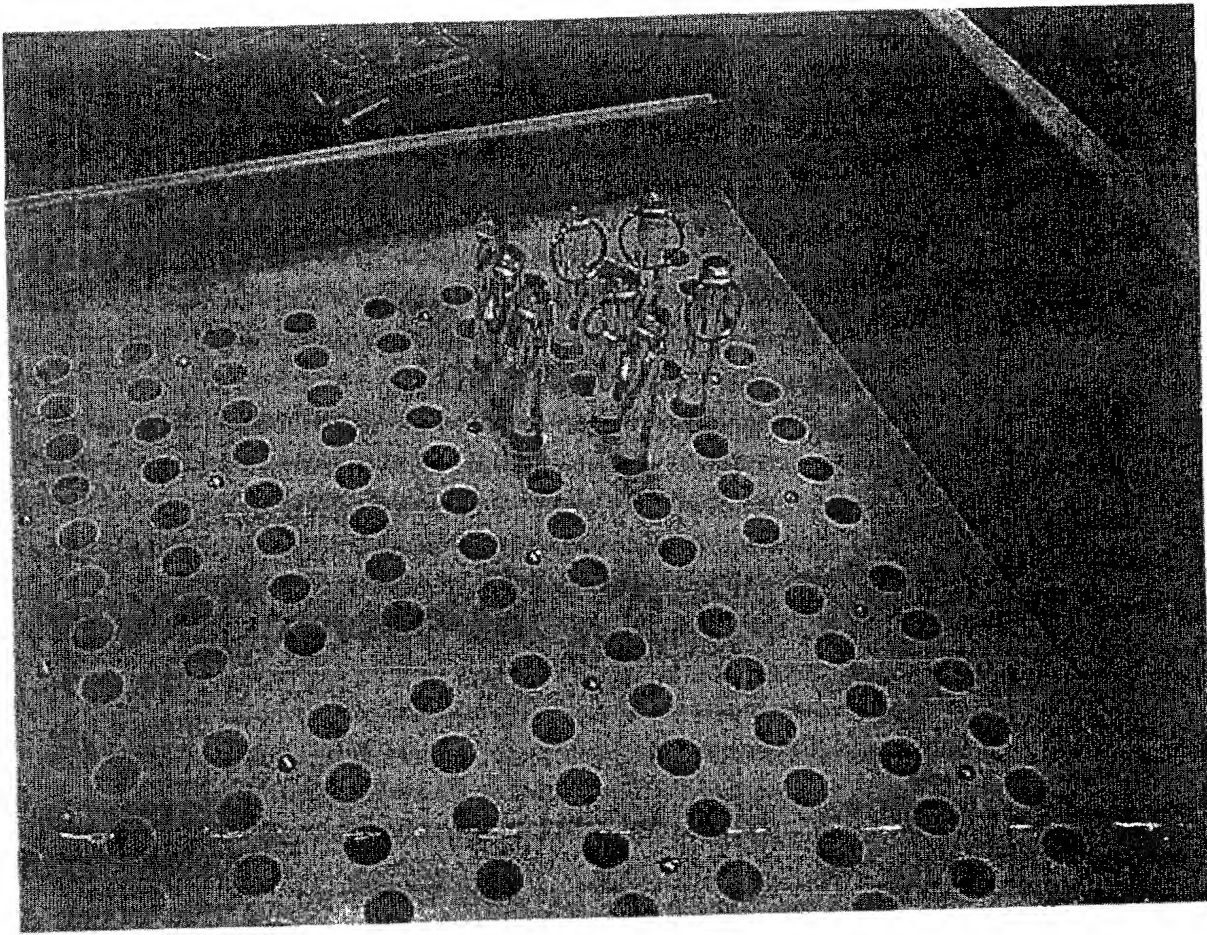


FIG. 4

Grey steel cover is part of drawer
For prototypes, particle board and spacers underneath cover allow key tags to stand up
Alternative to wood insert is still an issue
Under inserts are 4 8x8 scanner boards

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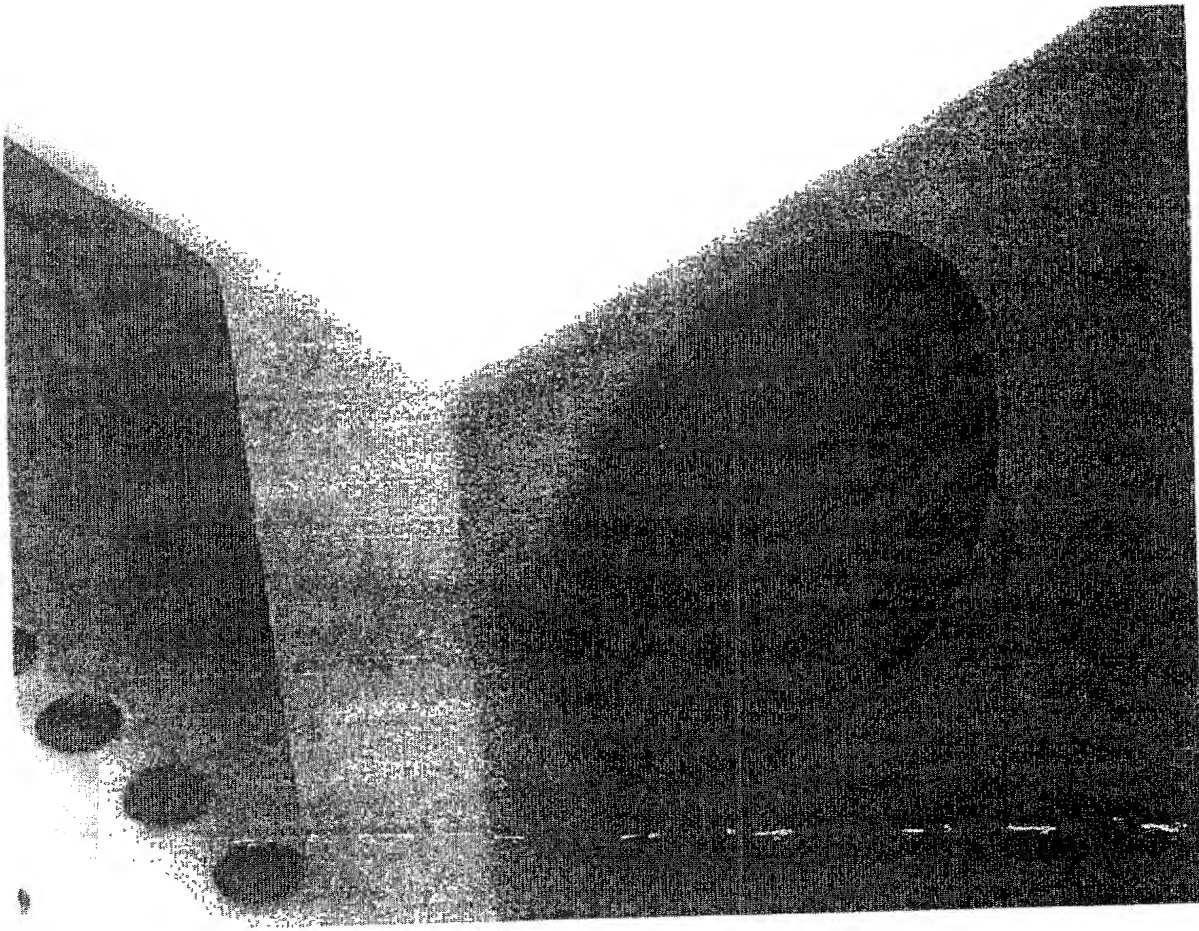


FIG. 5

For prototypes, 1 scanner is re-wired to the outside in order to scan user ID's and to ID tags for adding vehicles, etc
Later, this scanner will connect to a parallel port on 1 drawer in a system of up to 4 drawers

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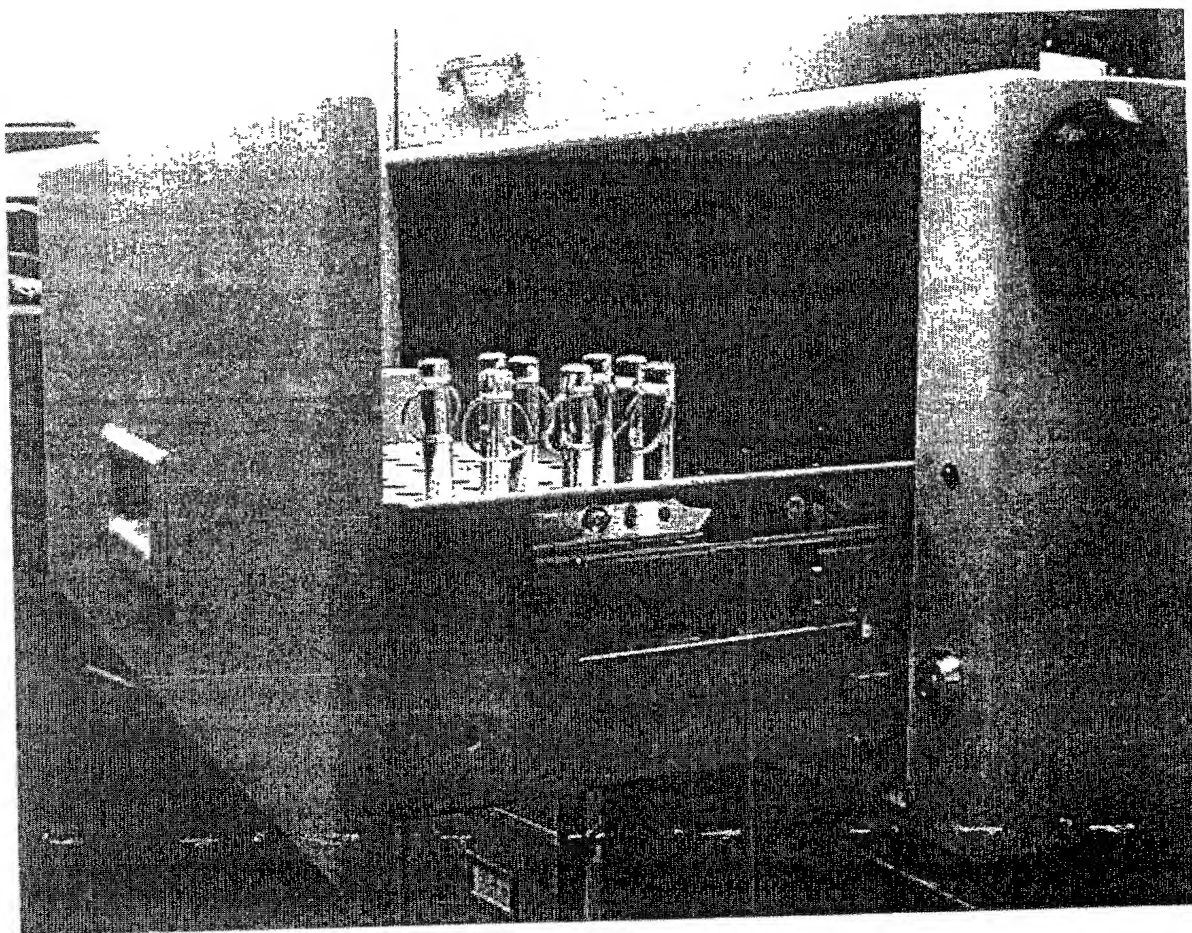


FIG. 6

Side view showing tags
Plenty of drawer clearance - this may be more than we need but also have plans to offer a drawer version which will hold either dealer license plates or a combination of keys and plates

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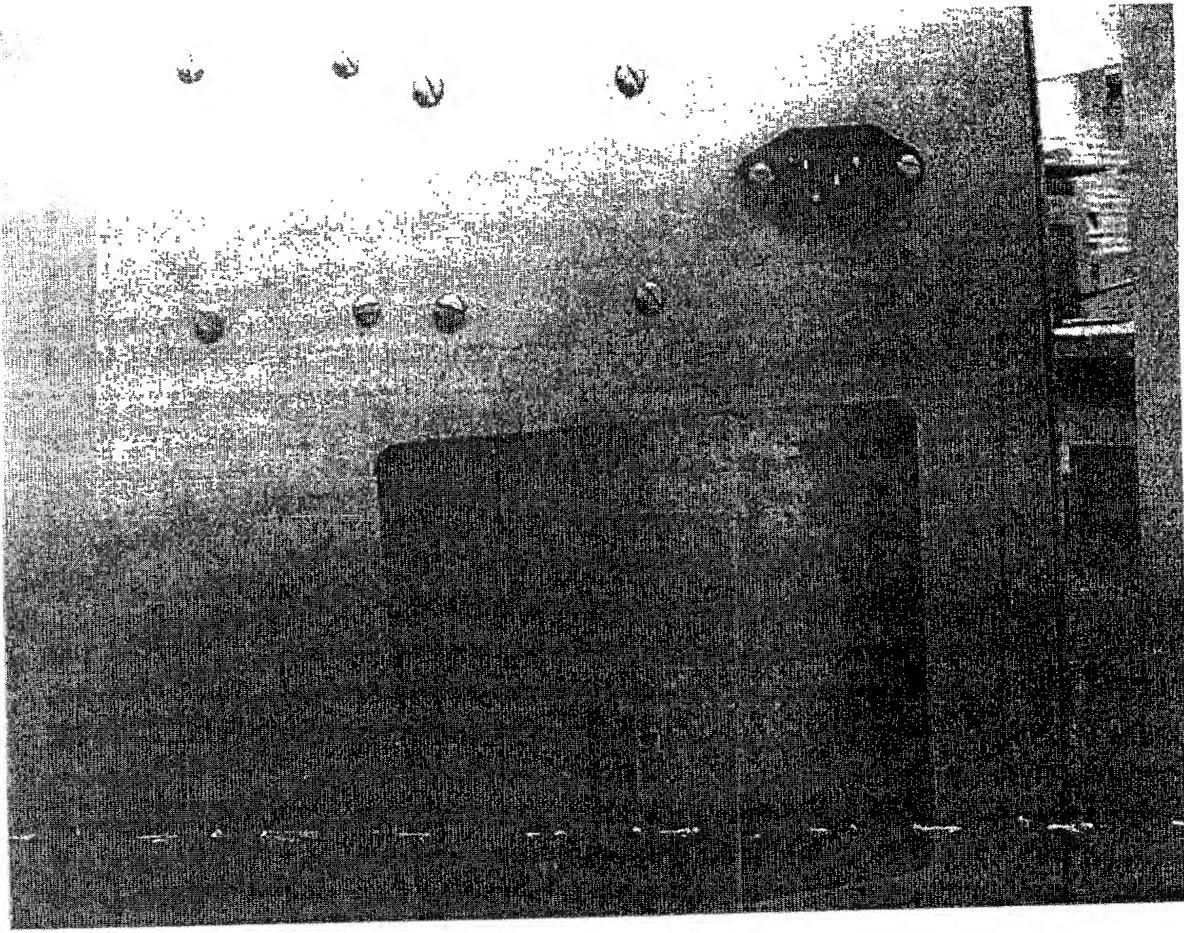


FIG. 7

Back panel!

There will be dual parallel connectors

ICD is working on tooling for this plate, including screw holes, per GnuCo design

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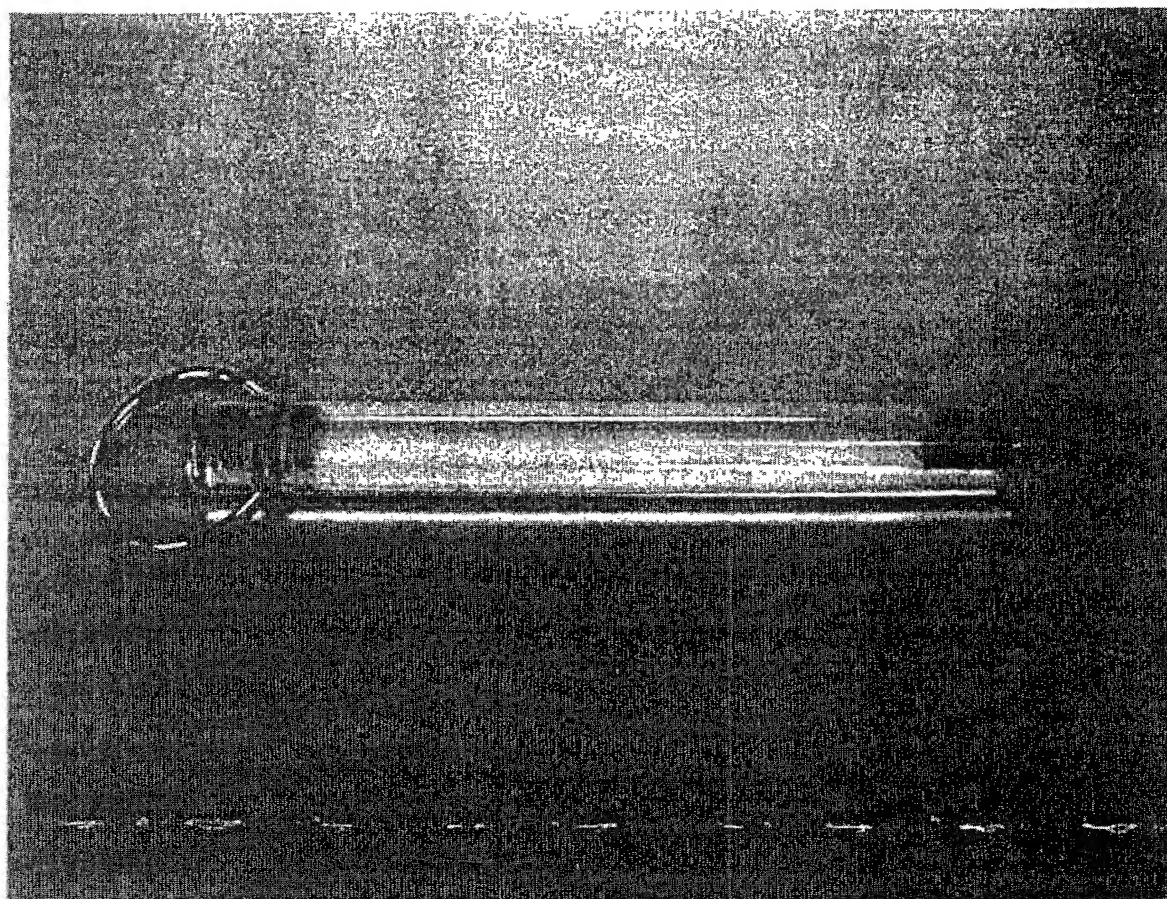


FIG. 8

Key tag - 4 5" long with 1.5" of length below drawer cover when inserted
Opaque plastic serves as light pipe for LED in scanner board
RFID transponder inserted in drilled out hole then sealed with epoxy

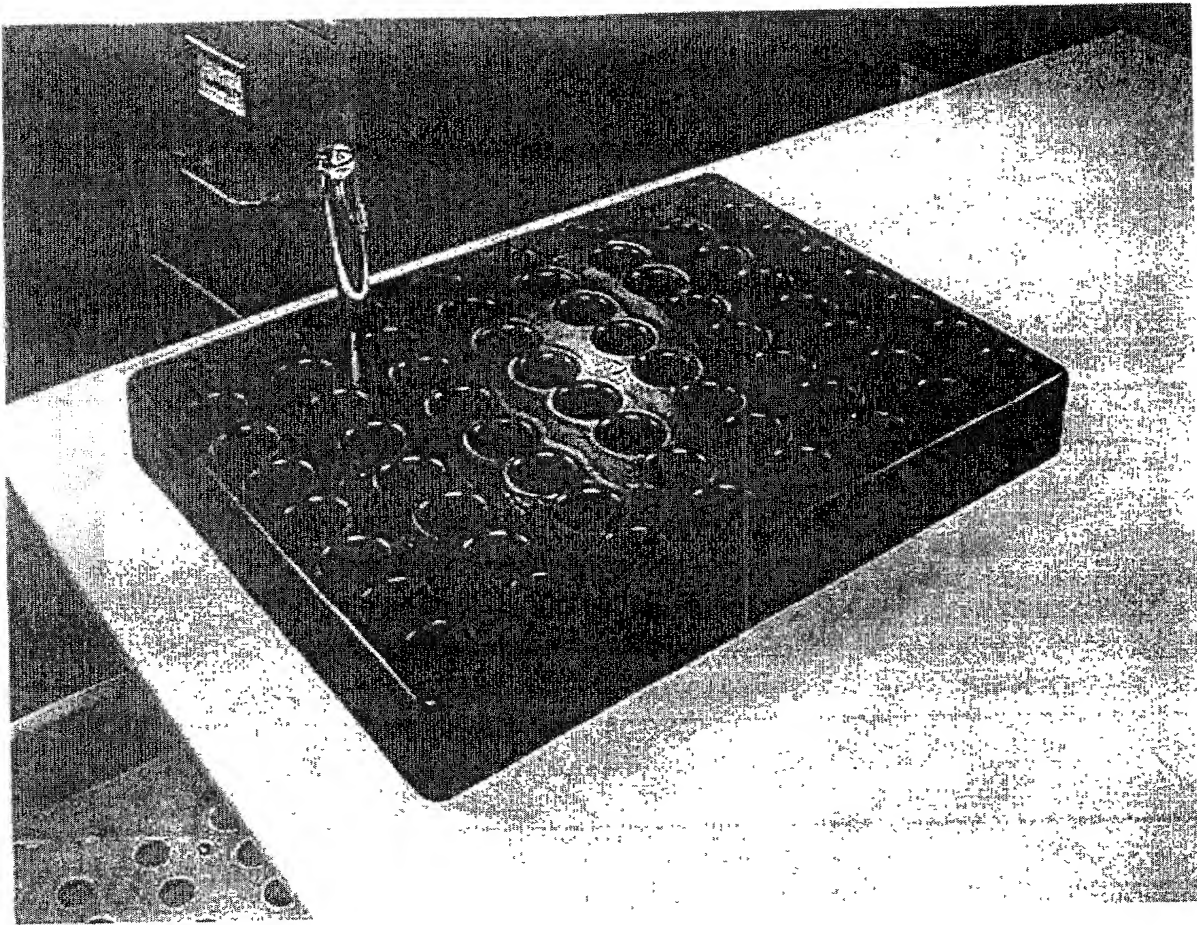


FIG. 9

Failed vacuum-molded part – would take 4 per drawer
Looking for non-wood solution for next 20 units and cost-effective solution for production

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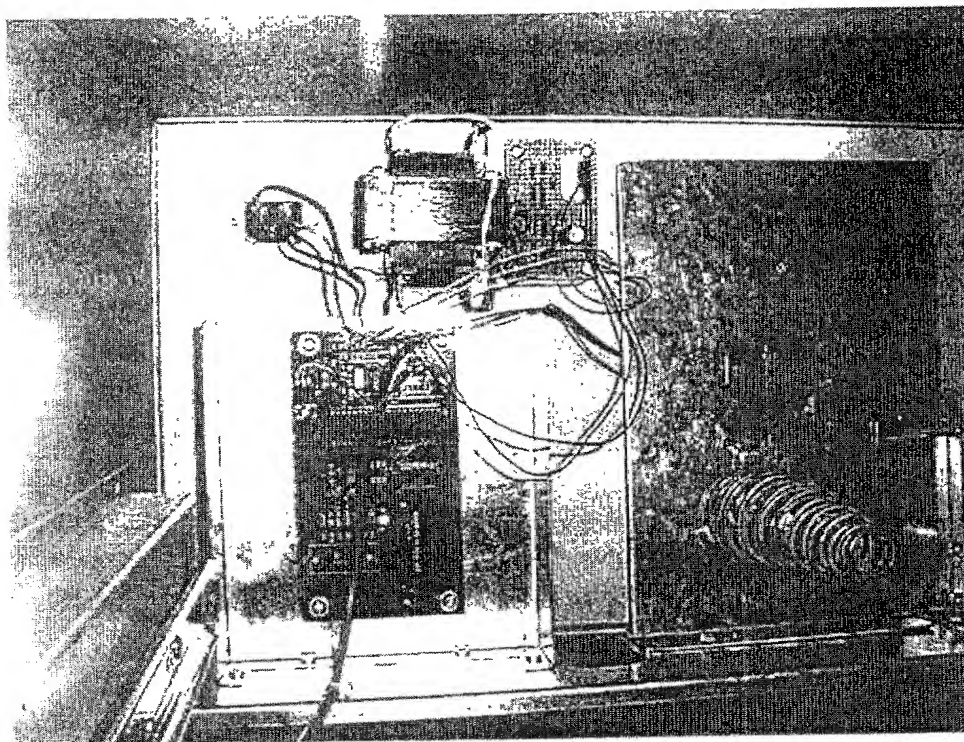


Fig. 10

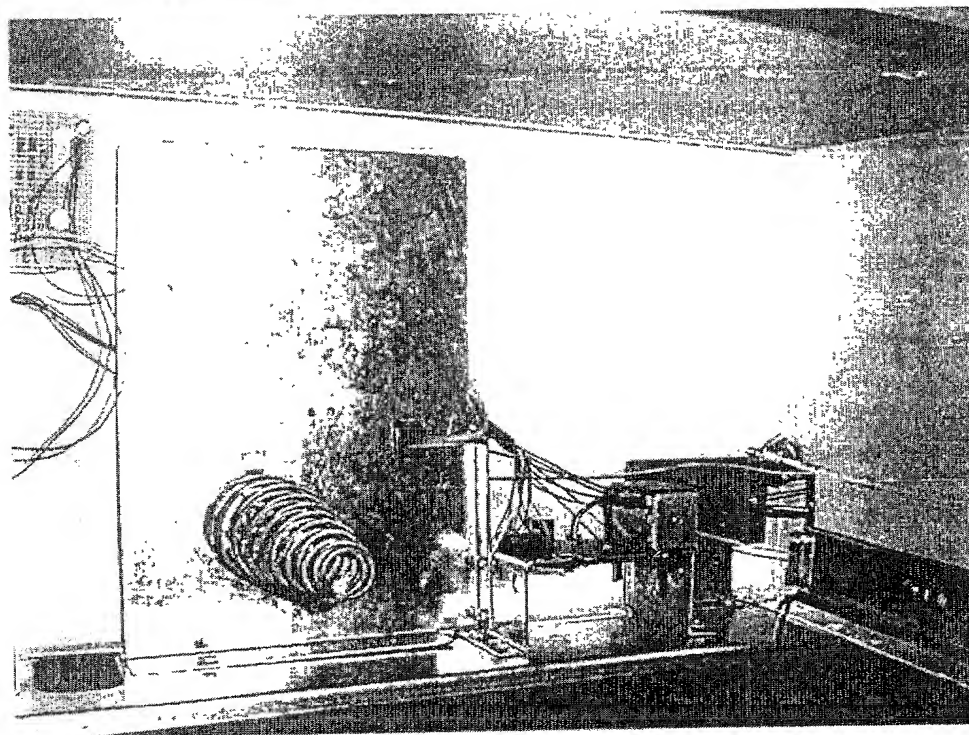


Fig. 11

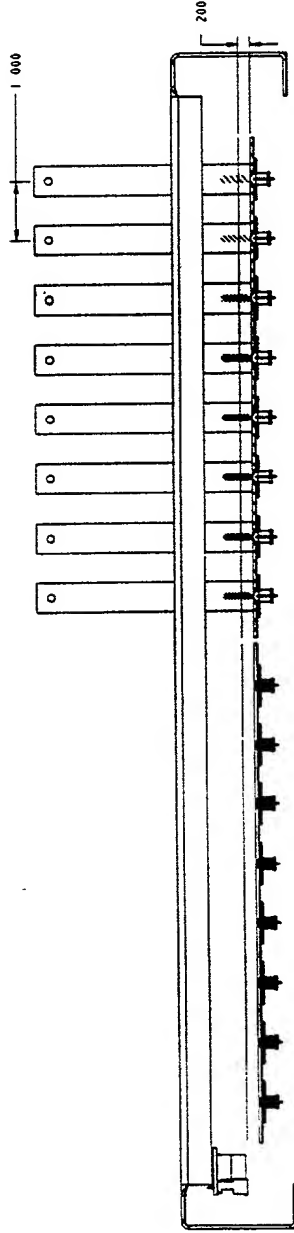


FIG 12

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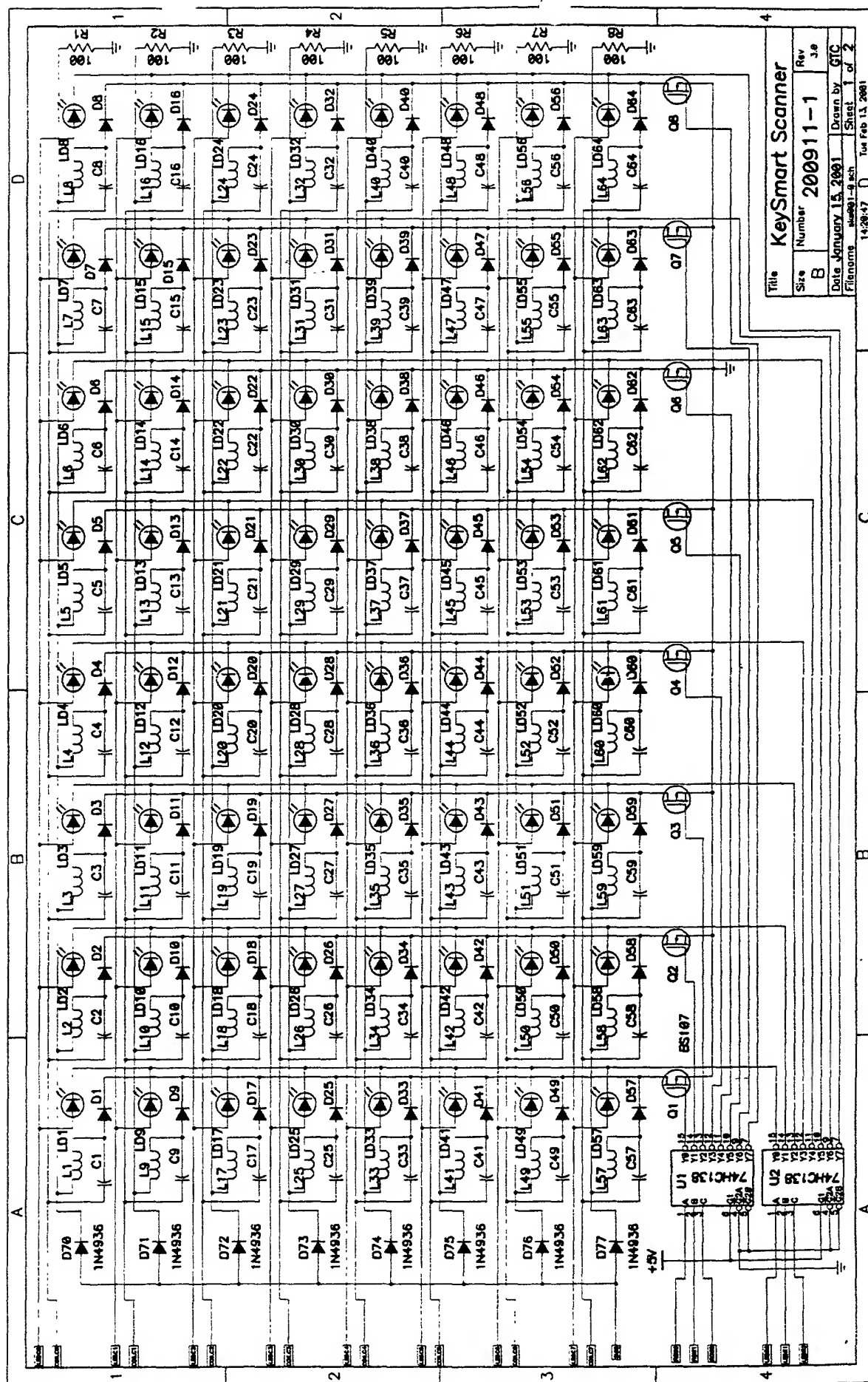
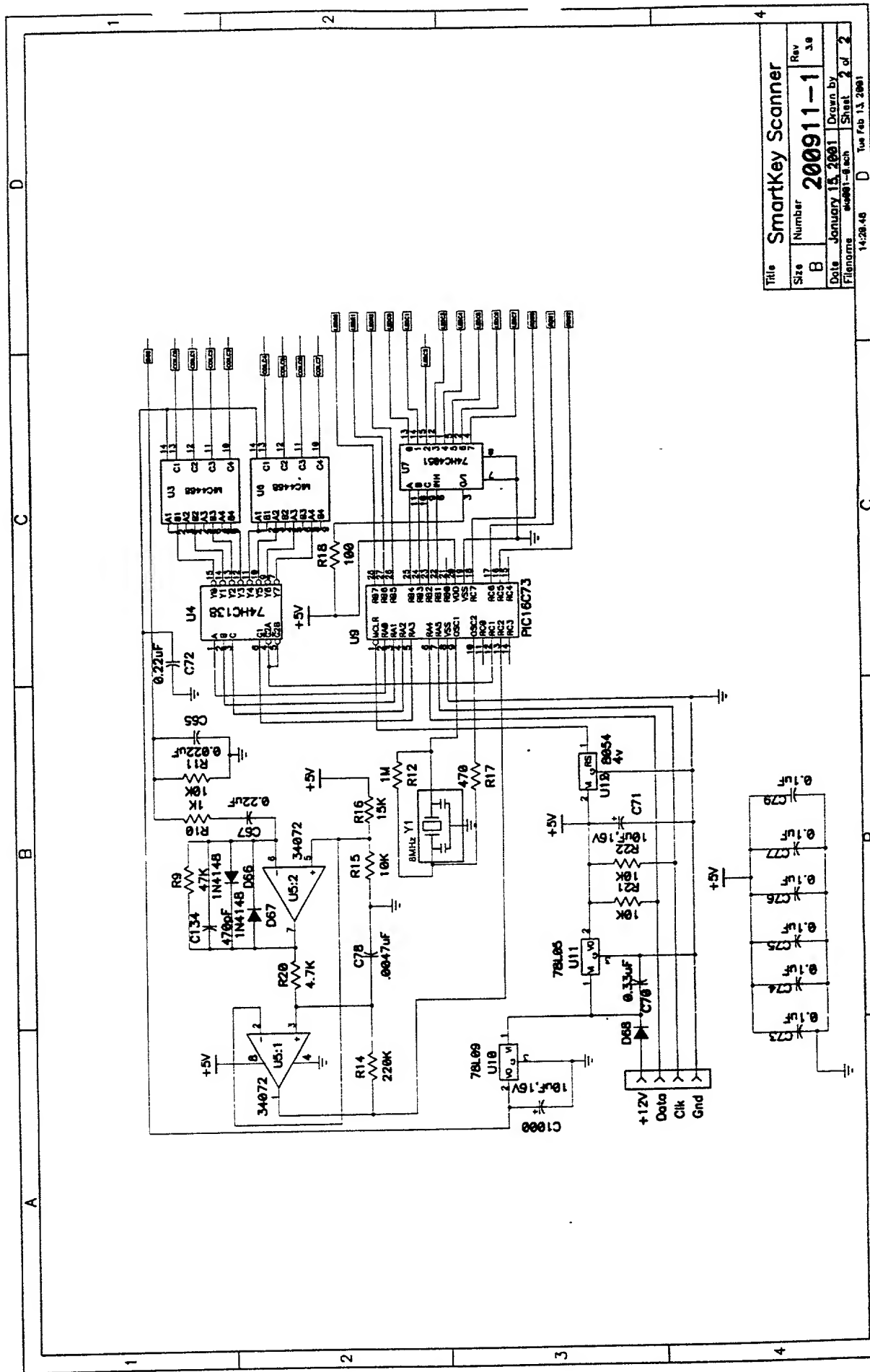


FIG. 13

200911-1



Title SmartKey Scanner			
Size B	Number 200911-1	Rev 3.0	
Date January 15, 2001	Drawn by	Sheet 2 of 2	
Filename 200911-1.sch	14:28:45	D	Tue Feb 13, 2001

FIG. 14

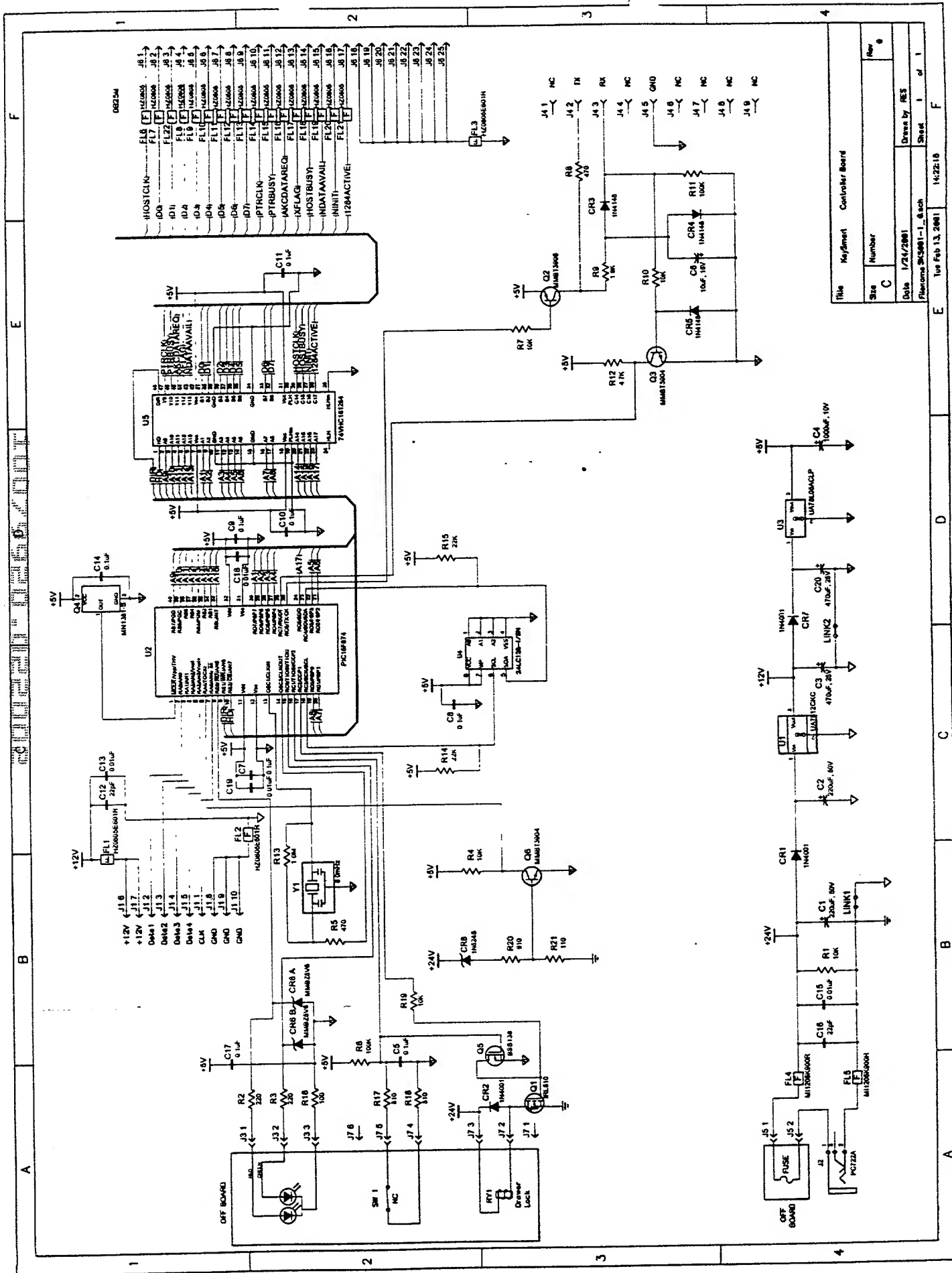


FIG. 15

File	Keyframe Controller Board
Size	Number
C	
Date	1/24/2001
Drawn by	RES
Planned	SK5001-1, 6 each
Sheet	1 of 1
14:22:10	14:22:10

FIRMWARE FLOW

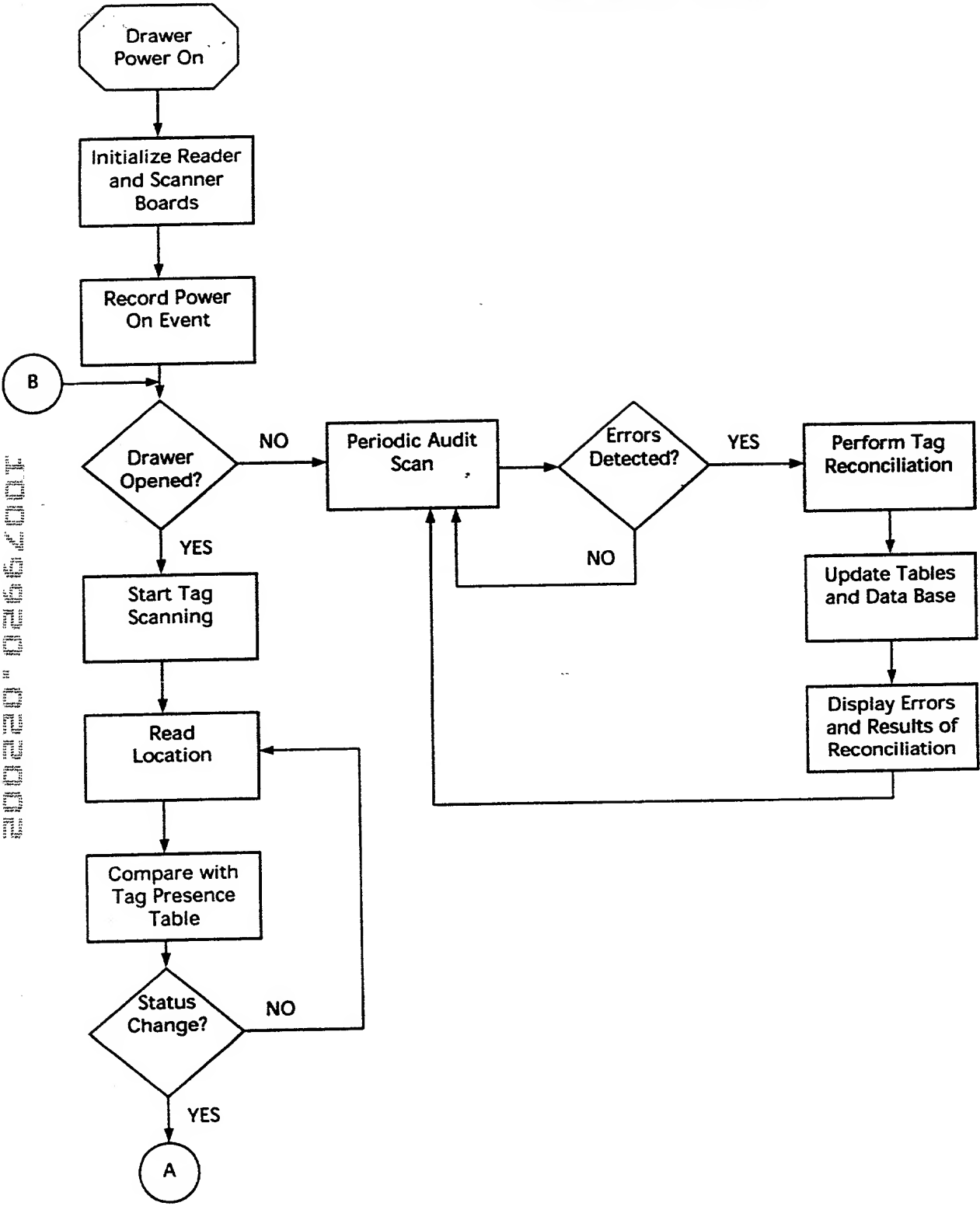


FIG 16

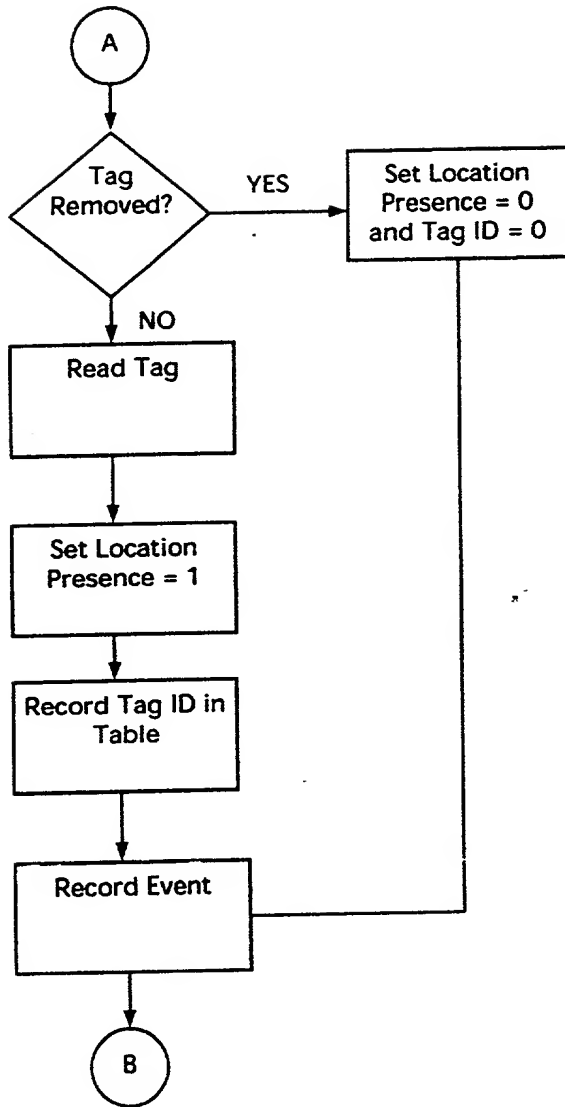


FIG. 17

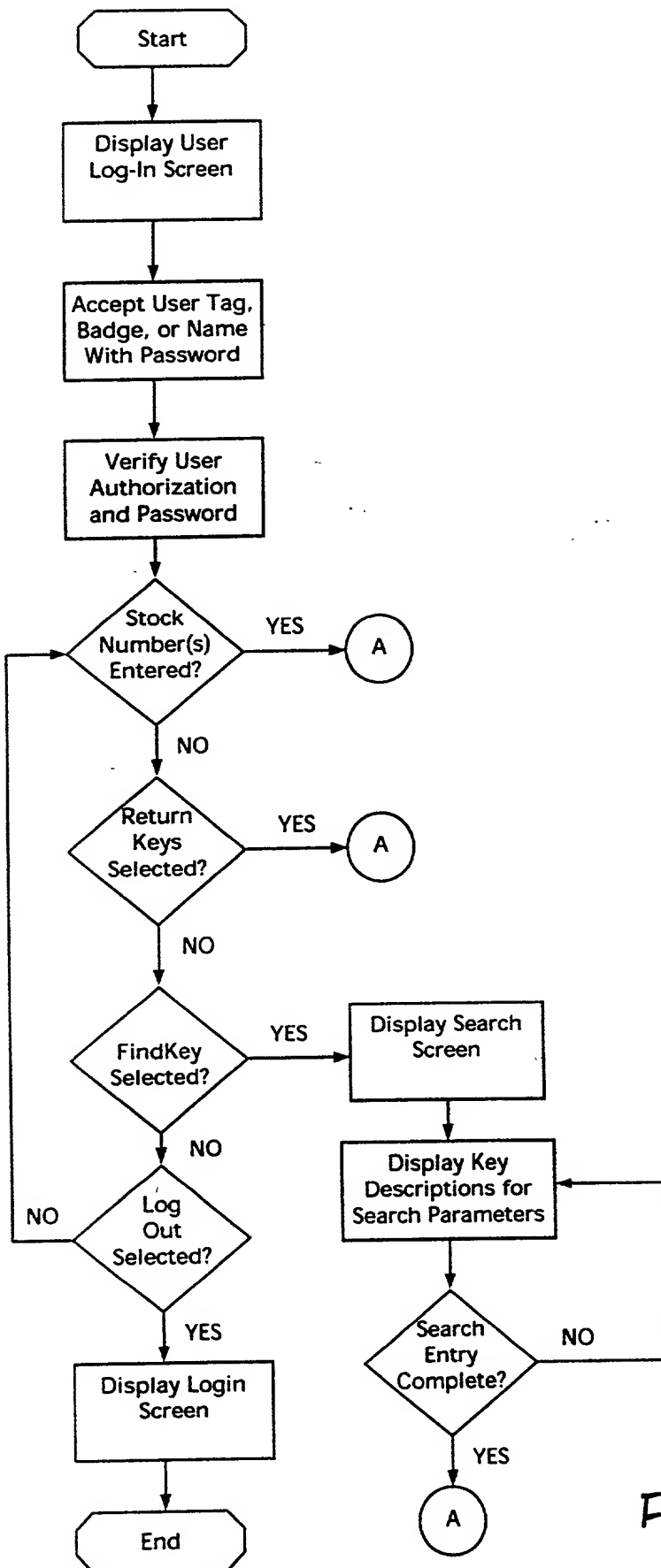


Fig. 18

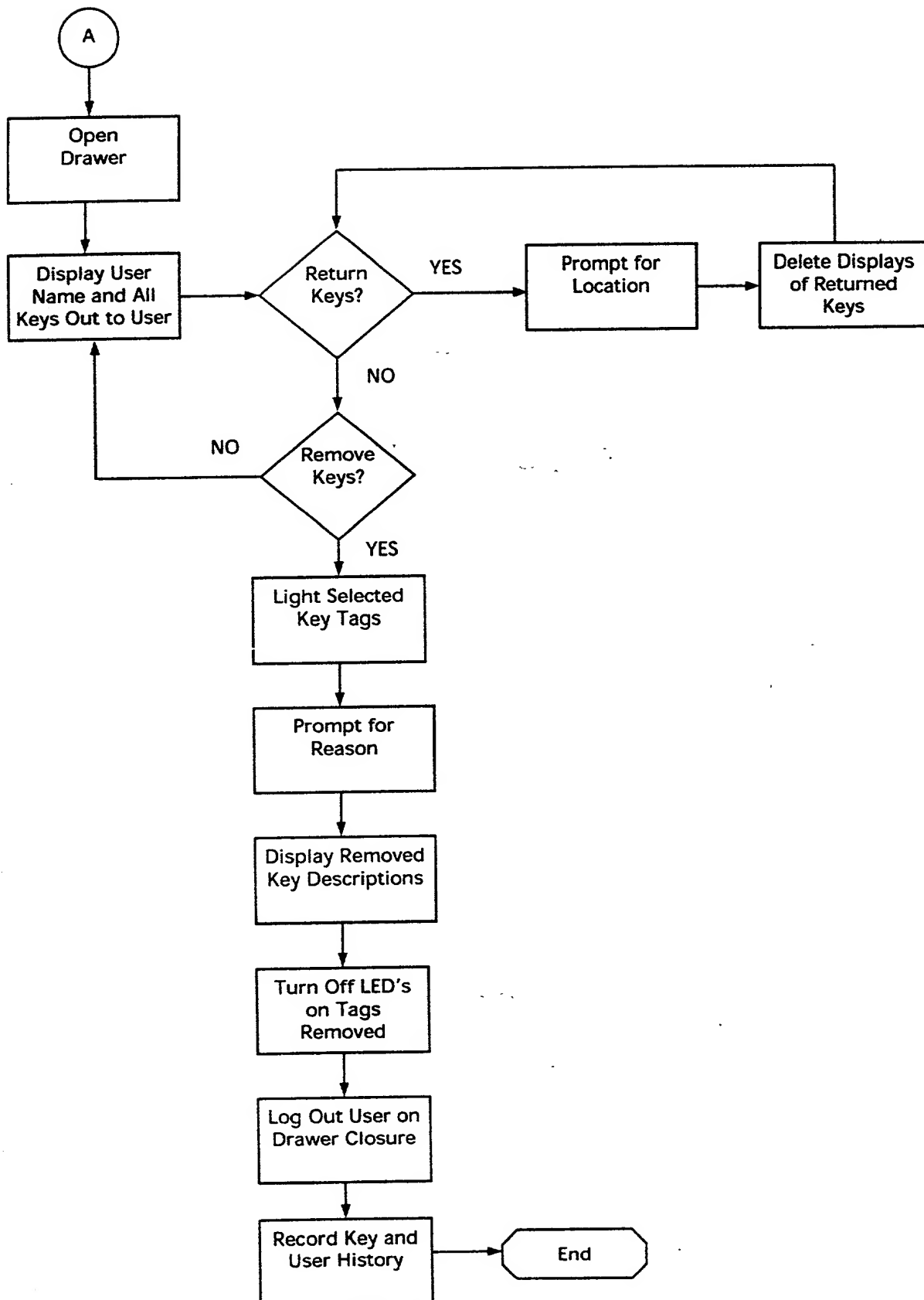


Fig. 19